27163 \$/057/61/031/009/003/019 B109/B138

24.6714

AUTHORS:

Chechkin, V. V., Vasil'yev, M. P., Grigor'yeva, L. I.,

Smerdov, B. I.

TITLE:

Absorption of cyclotron oscillations in a heterogeneous

plasma

PERIODI CAL:

Zhurnal tekhnicheskoy fiziki, ♥. 31, no. 9, 1961, 1033-1035

TEXT: Apparatus and results of measurement are described for the absorption of high-frequency energy in a hydrogen plasma produced in a quartz tube (5.5 cm diameter, 100 cm length) by a Penning discharge. Capacitor 2 microfarads, charged to 5 kv, maximum discharge time did not exceed a few microseconds. The plasma was under the action of a longitudinal magnetic field, also produced by a capacitor discharge to a solenoid

(18 milliseconds quasisteady, 10^4 - 1.6·10⁴ gauss). Measurements were made in the time interval of 300 - 1,000 microseconds after ignition of the plasma discharge. The plasma oscillations were excited by a 10.7 Mcps, 300-w coil (axial period λ = 11 cm) as described by G. N. Stix (Phys.

Card 1/4

Absorption of cyclotron ...

27163 S/057/61/031/009/003/019 B109/B138

Fluids, 1, 308, 1958); the coil was pushed onto the quartz tube. Fig. 1 shows the results of measurement: dependence of the high-frequency power absorbed in the plasma on the magnetic field strength at various moments after discharge ignition, i.e., at different ion densities (hydrogen pressure 6.10-3 mm Hg). The authors interpret the course of the curve stating that the cyclotron oscillations with high densities are excited in the peripheral plasma layer and, moving to the axis, meet a layer with critical ion density, where they are absorbed. Fig. 2 shows this dependence for 1.3.10⁻³ mm Hg; here, the ion density in the discharge is considerably lower, and cyclotron oscillations can be excited in the region of H = H only. In all experiments, the ion temperature in the plasma hardly exceeded 1 ev. Under such conditions the cyclotron damping with H values where absorption occurs, is no longer important cf. R. Z. Sagdeyev, V. D. Shafranov (Fizika plazmy i problema upravlyayemykh termoyadernykh reaktsiy, IV, 430, 1958). But the absorption caused by collisions between unequal particles should still be very considerable. The authors thank K. D. Sinel'nikov, Academician AS UkrSSR, V. T. Tolok, and K. N. Stepanov

Card 2/4

Absorption of cyclotron ...

27163 \$/057/61/031/009/003/019 B109/B138

for discussing the work. There are 2 figures and 5 references: 2 Sovietbloc and 3 non-Soviet-bloc.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN USSR Khar'kov (Physicotechnical Institute AS UkrSSR, Khar'kov)

SUBMITTED:

September 10, 1960

Fig. 1. Dependence of the absorbed power on the magnetic field strength.

Legend: The scale on the ordinate is given in relative units. The broken line denotes the magnetic field strength corresponding to the cyclotron resonance of an individual ion. 1 - 300 µsec after the beginning of discharge; 2 - 400; 3 - 500; 4 - 600; 5 - 700; 6 - 800; 7 - 900;

Fig. 2. The same as in Fig. 1 for $1.3 \cdot 10^{-3}$ mm Hg. 1 - 300; 2 - 400; 3 - 500; 4 - 600; 5 - 700 µsec.

Card 3/4

SHTEYNBERG, M.M., doktor tekhn. nauk; MIRMEL'SHTEYN, V.A., inzn.; KODES, Ye.S.; CHECHULIN, I.P.

Effect of lanthanum on the temper brittleness of structural steel. Sbor. st. NITTIAZHMASHA Uralmashzavoda no.5:38-47 '64.

(MIRA 17:11)

VASIL'YEV, M.P.; GRIGOR'YEVA, L.I.; DOLGOPOLOV, V.V.; SMERDOV, B.I.; STEPANOV, K.N.; CHECHKIN, V.V.

Absorption of high-frequency energy by a plasma near the frequency of ion cyclotron resonance. Pt.1. Zhur. tekh. fiz. 34 no.6:974-983 Je 64.

Experimental study of the absorption of high-frequency energy by a plasma near the frequency of ion cyclotron resonance. Part 2. Ibid.:984-992 (MIRA 17:9)

VASIL*YEV, M.P.; GRIGOR*YEVA, L.I.; DOLGOPOLOV, V.V.; SMERDOV, B.I.; STEPANOV, K.N.; CHECHKIN, V.V.

Cyclotron resonance in an inhomogeneous plasma cylinder. Zhur. tekh. fiz. 34 no.7:1231-1236 J1 64 (MIRA 17:8)

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ACCESSION NR: AP4042945

S/0057/64/034/003/1531/1533

AUTHOR: Vasil'yev, M.P.; Grigor'yeva, L.I.; Smerdov, B.I.; Chechkin, V.V.

TITLE: Increase in the diffusion rate of a plasma at the ion cyclotron resonance

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.8, 1954, 1531-1533

TOPIC TAGS: plasma diffusion, cyclotron resonance, hydrogen plasma

ABSTRACT: The effect of a high-frequency azimuthal electric field on the decay rate of hydrogen plasmas in a magnetic field was investigated experimentally. V.V.Dolgopolov, K.N.Stepanov and the present authors have described the apparatus in detail elsewhere (ZhTF 34,No.6,1964). The plasmas were produced in a 6 cm diameter glass tube by a Penning discharge between cathodes separated by 80 cm. Thirty microseconds after the discharge, the plasma temperature had dropped below 1 eV but the charged particle density was still 1.7 x 10¹³ cm⁻³. The subsequent rate of decay of the plasma was independent of the strength of the longitudinal magnetic field provided this was not less than 1.5 kOe. This is ascribed to predominance in the decay mechanism of recombination over diffusion to the walls. A 7.45 Mc field with negligible

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ACCESSION NR: AP4042945

longitudinal electric field component was applied to the decaying plasma by means of a section of an artificial helical LC line. When this high-frequency field was sufficiently strong, its application increased the decay rate of the plasma at all values of the static longitudinal magnetic field strength; the increase was particularly marked, however, at a magnetic field strength of 5.6 kOe, at which the ion Larmor frequency is some 15% greater than the frequency of the applied field. Weak high-frequency fields were found to decrease the plasma decay rate, but the decay rate was increased by fields exceeding a certain critical amplitude that increased with increasing pressure. The decrease of the decay rate in weak high-frequency fields is ascribed to heating of the plasma, and the increase in strong fields to enhancement of the plasma diffusion rate. The diffusion enhancement mechanism is not understood, but it is suggested that a drift instability due to nonuniform heating may be involved. The authors briefly discuss the effect of the observed phenomena on heating of plasmas at the ion cyclotron resonance under such conditions that the longitudinal electric field component is significant. 'We tender our gratitude to V.T. Tolok for discussing the work and for valuable remarks." Orig. art. has: 3 figures.

2/3 Card

ACCESSION NR: AP4042945

ASSOCIATION: none

SUBMITTED: 29Aug63

SUB CODE: ME, NP

NR REF SOV: 004

Cord

3/3

VI (1)/FTC/EPF(n)-2/EWG(m) ACC NR: AP6000738 LIP(c) MY/GG/AT SOURCE CODE: UR/0386/65/002/009/0418/0422 44,55 44,55 gor yeva AUTHOR: .V.; Vasil'yev. 44,55 Smerdov, B. Longinov, A. V.; 44,55 ORG: none 21,44,55 TITLE: Resonance heating of plasma by means of a strong high-frequency field SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 9, 1965, 418-422 21, 44, 55 plasma, heating, dense plasma, magnetic energy absorption, acoustic wave, Af field, eletric field, magnetic fills ABSTRACT: An investigation was made of the heating of a dense plasma by powerful short high-frequency pulses when in plasma a fast magnetoacoustic wave $(\Omega_{
m e}^{>>})\omega_{
m e}$, $\omega_1 < \omega < < \omega_e$, where Ω_e is the plasma electron frequency, ω_1 , ω_e are cyclotron frequencies of ions and electrons, respectively, and w is the operating frequency) is generated by means of resonance. The investigations were carried out on a disintegrating plasma present in a quasi-constant longitudinal magnetic field with an intensity reaching 6000 Oe. The plasma was generated by a pulse discharge with oscillating electrons in hydrogen and helium at a pressure of 10^{-3} mm Hg. The coefficient of energy transfer (the ratio of the energy absorbed by the plasma to the total energy stored in the circuit) of an h-f field from the circuit to the plasma was measured. The dependence of the coefficient on the intensity of a <u>Card</u> 1/2 7

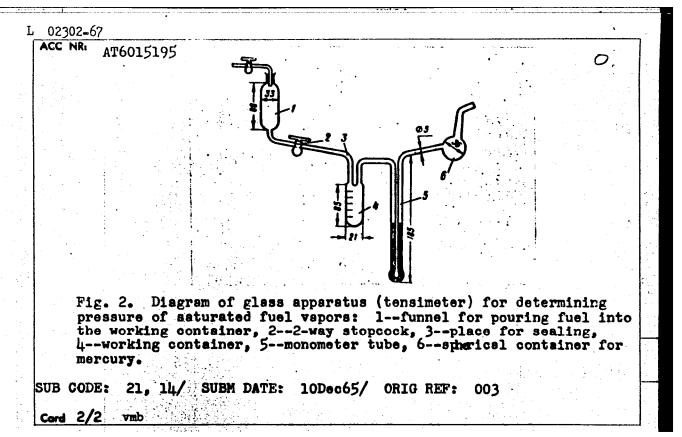
ACC NR: AP6000738

quasi-magnetic field for different values of the initial electron density shows that the absorption of energy of an h-f field by the plasma has a resonance character, its maximum corresponding to a frequency w, which is in the range $\omega_1 < \omega < \sqrt{\omega_1 \omega_e} < < \omega_e$. A similar dependence was obtained for a helium plasma. The dependence of the transfer coefficient, the electron temperature, and the increase of electron density on the intensity of the magnetic field shows that the electron temperature Te rises when the energy absorbed by the plasma increases, reaching approximately 60 ev. At the same time, the density of electrons also increases and the degree of ionization approaches 100%. The temperature of ions T_1 is approximately 30 ev. The heating of the plasma takes a short time: at maximum absorption the amplitudes of h-f oscillations in the circuit decrease by 2.7 times per ~ 0.5 µsec, i. e., during 2-3 oscillation periods; without plasma this decrease takes approximately 11 periods. The calculated damping decrement $\gamma_{\rm exp} \simeq 6.5 \times 10^{-2} \omega$ (from the rate of the decrease in the amplitude oscillation in the circuit) exceeds the damping decrement of the magnetoacoustic waves, which is subjected to Coulomb losses, by more than two orders. The temperature, calculated from the energy balance under the assumption that the entire energy absorbed by the plasma is spent on its heating, is equal to 2 90 ev, which is in agreement with experimental data. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 07Sep65/ ORIG REF: 009/ OTH REF: 001/ ATD PRESS:

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02302-67 EWT(m)/T WW/WE/GD UR /0000/66/000/000/0050/0055 ACC NR: AT6015195 (A,N) SOURCE CODE: Tararyshkin, M. Ye.; Chechkina, O. M. AUTHOR: ORG: none TITLE: Determination of the pressure of saturated hydrocarbon fuel MP vapor SOURCE: Metody otsenki eksplustatsionnykh svoystv resktivnykh topliv i smazochnykh materialov (Methods for the performance evaluation of jet propellants and lubricants). Moscow, Izd-vo Mashinostroyeniye, 1966, 50-55 TOPIC TAGS: petroleum fuel, vepor pressure ABSTRACT: A tensimeter was adapted for use in determining vapor pressure of saturated hydrocarbon fuels (see Fig. 2). This modified tensimetric method was found to be sufficiently accurate at maximum vapor pressures not exceeding 2 kg/sq cm. The deviation among determinations also exceeds 2% when the vapor pressures are very low (at temperatures below 20°C). Orig. art. has: 3 tables, 2 figures and 1 equation. UDC: 662.753.22:629.13.001.4 Card 1/2



L 02300-67 EWT(m)/T FDN/WW/WE/GD

ACC NR: AT6015197 (A,N) SOURCE CODE: UR/0000/66/000/00061/0068

AUTHOR: Tararyshkin, M. Ye.; Chechkina, O. M.

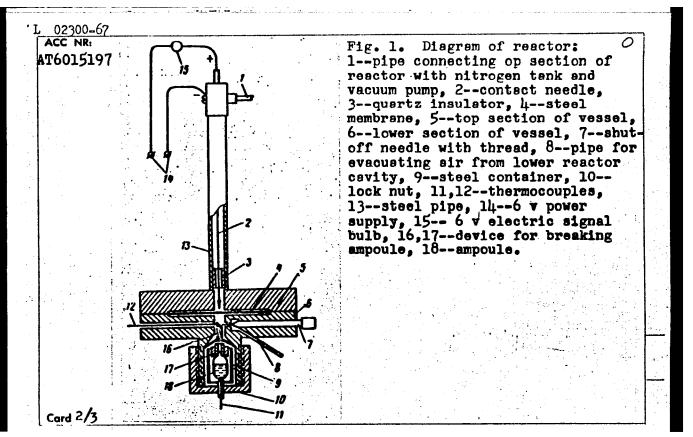
TITLE: Determining the pressure of saturated fuel vapors on a membrane apparatus

SOURCE: Metody otsenki eksplustatsionnykh svoystv reaktivnykh topliv i smazochnykh materialov (Methods for the performance evaluation of jet propellants and lubricants). Moscow, Izd-vo Mashinostroyeniye, 1966, 61-68

TOPIC TAGS: petroleum fuel, vapor pressure, FOFL 7E37

ABSTRACT: A steel apparatus with a metallic membrane for measuring pressure was adapted for use with hydrocarbon fuels, of complex chemical composition (see Fig. 1). It was found that the membrane apparatus is sufficiently accuracte for determining the pressure of saturated fuel vapors in the wide temperature range from 20 to 350-400°C.

Reproducibility of results was satisfactory. Pressure of vapors of degassed and of non-degassed fuel samples can be measured. The pressure of the saturated fuel vapor increased when air was dissolved in the fuel.



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MAKLETSOVA, N.N.; BELOGORTSEV, I.D.; VARAKSIN, V.N.; YELISEYEV, I.K.; ZYSMAN, A.I.; VOINOV, A.P., prof., retsenzent; CHECHKO, E.I., red.; KUZ'NENOK, P.T., tekhn.red.

[Principles of designing spertment houses] Osnovy proektirovaniia shilykh sdanii. Minsk, Bed.-isdat.otdel.Belorusskogo politekhn. in-ta im. I.V.Stelina, 1960. 194 p. (MIRA 13:8)

1. Minsk. Belorusskiy politekhnicheskiy institut. 2. Deystvitelnyy chlen Akademii stroitel'stva i arkhitektury SSSR i chlenkorrespondent Akademii nauk BSSR (for Voinov).

(Apartment houses)

(Architecture--Designs and plans)

CHECHKO, F. Ye.

"Growing Pine Seedlings by Planting Thickly and Using Fertilizer," Les. i step!, 4, No 7, 1952

- 1. CHECHKO, F. YE.
- 2. USSR (600)
- 4. Afforestation
- 7. Some mistakes in growing forests. Les i step! 4 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

CHECHKO, F.Ye. insh.

Improve technological processes and equipment used in lumbering. Isobr.v SSSR 2 no.2:33 F '57. (MIRA 12:3) (Lumbering)

POKROVSKIY, N.M., prof., doktor tekhn.nauk; TRUPAK, N.G., prof., doktor tekhn. nauk, retsenzent; CHECHKOV, L.V., red. izd-va; ZHIVRINA, G.V., tekhn. red.; LAVRENT YEVA, L.G., tekhn. red.

[Building and modernization of mines] Sooruzhenie i rekonstruktsiia gornykh vyrabotok. Izd.5. Moskva, Gosgortekhizdat. Pt.3. [Special methods of building and modernizing mines] Spetsial nye sposoby sooruzheniia i rekonstruktsiia vyrabotok. 1963. 313 p. (MIRA 16:12) (Mine engineering)

SHAFRANOV, Nikolay Konstantinovich; SCSNOVSKIY, M.V., kand. tekhn. nauk, retsenzent; CHECHKOV, L.V., ved. red.

[Improving mine shaft bottoms] Sovershenstvovanie okolostvol'nykh avorov shakht. Moskva, Nedra, 1964. 133 p. (MIRA 18:1)

KAPUSTIN, Nikolay Georgiyevich; KVON, Sergey Syn-Guvich; BERLIN,
A.Ye., inzh., retsenzent; KOVSH, B.I., inzh.,
retsenzent; BRODSKIY, I.A., inzh, retsenzent; CHECHKOV,
L.V., ved. red.; BIRYUKOV, R.A., prof., otv. red.

[Principles of designing coal mines] Osnovy proektirovania ugol'nykh shakht. Moskva, Nedra, 1964. 267 p.
(MIRA 18:2)

1. Vsesoyuznyy tsentral'nyy gosudarstvennyy institut po proyektirovaniyu i tekhniko-ekonomicheskim obosnovaniyam razvitiya ugol'noy promyshlennosti (for Berlin, Kovsh, Brodskiy).

CHECHLOWSKI, W.

J. Hoffmeister's classification in biometeorology according to his "Applied meteorology." Przegl geofiz 6 no.4:292-293 '61.

GORENSHTEYN, Mikhail Moiseyevich, kand. tekhn. nauk, dots.; TSILEVICH, Il'ya Zalmovich, inzh.; MEZHAUROV, Marat Mikhaylovich, inzh.; CHECHNEV, A.A., inzh., retsenzent

> [Lightweight rolled sections] Oblegchennye profili prokata. Kiev, Gostekhizdat, USSR, 1963. 137 p. (MIRA 18:6)

SOV/137-58-7-14756

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 117 (USSR)

AUTHORS: Starchenko, D.I., Chechnev, A.V.

TITLE: High-reduction Rolling of Symmetrical and Asymmetrical

Angles (Prokatka ravnobokikh i neravnobokikh uglovykh profiley

s vysokimi obzhatiyami)

PERIODICAL: Sbornik nauchnykh trudov Zhdanovskiy metallurgicheskiy in-t,

1957, Nr 4, pp 101-125

ABSTRACT: A study is made of the nature of metal flow and the stability

of Pb billets in rolling (R) with very high reduction to angular shapes. Experiments were run on a laboratory reversing two-high rolling mill with a nominal roll diameter of 125 mm and a peripheral velocity of 26 mm/sec. The roll bodies were 300 mm long. The R of symmetrical angles was performed in 4 open symmetrical angle grooves (G) with straight webs and angles of progressive closure of 20, 32, 40, and 45°, of which the first 3 G are roughing, and the 4th is the leader and the finishing G. Rods of the following dimensions were used: 22x8

- 28x18 mm, diamond-shaped with 24 and 28 mm diagonals and

Card 1/3 depths of 20 and 23.5 mm, squares of 12 to 18 mm, rounds of

SOV/137-58-7-14756

High-reduction Rolling of Symmetrical and Asymmetrical Angles

12 and 16 mm diameter, octagonals of 14 and 18 mm diameter. Passes ranged from 12 to 5, and the draft per pass from 1.2 to 3.65. The dimensions of the angles (A) rolled were 19x19x2.5 and 20x20x2.5 mm. Laboratory tests determined that R of equilateral A at very high reduction and a smaller number of passes is quite possible from both square and diamondshaped bars resting on the diagonal and from round and octagonal bars delivered into the rolls in any position. Analogous experiments were run in the R of nonequilateral A measuring 24x16x2.5 mm. It is established that very high reduction R of nonequilateral A of consistent shape and size from rectangular bars resting on their diagonals may be performed by the employment of closed, developed nonequilateral angular roughing and intermediate G with limitation of spread. The finishing G should logically be oblique, with free spreading of the legs of the piece. Owing to the markedly uneven deformation in height, spread in angle G is not large even at very high drafts and is only 30-40% of the normal spread of square strip of equal size in smooth rolls. To verify the results obtained under laboratory conditions, very high reduction R of equilateral 40x40, 45x45, 50x50, and 65x65 mm A was performed on a 450 merchant mill. The bars were of Nr 3 and 5 steel of 40x40 to 66x66 mm cross section. The R was performed in 1, 2, and 3 passes. It was found that diagonal passes of square bars to the first G Card 2/3

SOV/137-58-7-14756

High-reduction Rolling of Symmetrical and Asymmetrical Angles

afforded a stable position in the G. The outside angle at the joint of the A legs filled out satisfactorily by this process. Carbon steels of standard qualities possess high ductile properties permitting very high reduction in angle G. No signs of failure were seen even when the reduction ratio per pass was 3.16. In order to ensure good G life and accurracy of the finished shape, R should be done in 3 passes with normal drafts in the finishing pass.

S.G.

1. Metal--Deformation 2. Lead--Processing 3. Lead--Stability 4. Rolling mills

Card 3/3

STAFCHENKO, D.I., prof., doktor tekhn.neuk; CHECHNEV, A.V., inzh.; PETIN, A.G., inzh.; SAVCHENKO, A.M., inzh.

Accelerating the process of relling on the cogging stand of a shape mill. Shor.namch.trud.Ehdan.met.inst. no.4:143-152 '57.

(Relling (Metalwork)) (NIRA 11:11)

CHEKMAREV, Aleksandr Petrovich, akademik; CHECHNEV, A.V., inzh., retsenzent; CHUMACHENKO, T.I., red.izd-va; BEREZOVYY, V.N., tekhn.red.

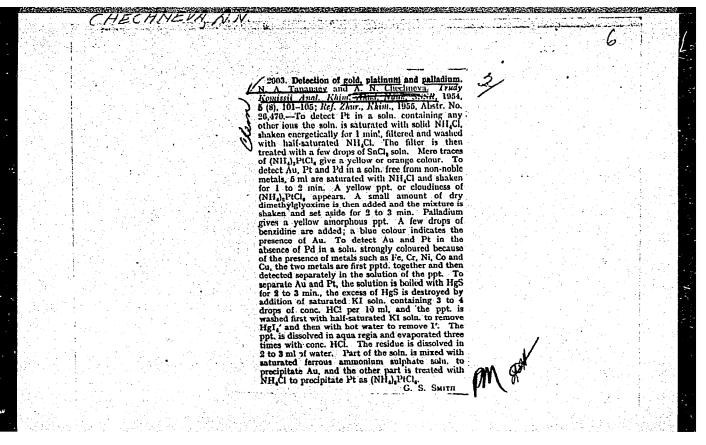
[Rolling of economical shapes] Prokatka ekonomichnykh profilei. Kiev, Gostekhizdat USSR, 1963. 267 p. (MIRA 17:1)

1. Akademiya nauk Ukr.SSR (for Chekmarev).

CHECHNEVA, A.N.

Chechneva, A.N.,--"Discovery and Determination of Small Amounts of Gold by Using Sulfide of Mercury." Cand Chem Sci, Ural Polytechnic Inst, Sverdlovsk 1953. (REFERATIVNYY ZHURNAL--LHIMIYA, No 1, Jan 54)

Scurce: SUM 168,22 July 1954



Chechneus, A.N.

SSR/Inorganic Chemistry. Complex Compounds.

: Ref Zhur - Khimiya, No. 8, 1957, 26442. Abs Jour

Author

Inst:

: Chechneva, A.N.
: Oralsk Polytechnical Institute.
: Gold Sulfide and Its Solubility Product. Title

: Tr. Ural'skogo politekhn. in-ta, 1956, No. 57, 162-170. Orig Pub

Abstract

: If H₂S was let through an acidified solution of AnCl₂ (concentration of Au 10⁻² g per mlit), a precipitate falls out, the analysis showing that the formula of the precipitate is Au₂S₃. If the concentration of Au was 10⁻⁴ g per mlit, Au₂S₂ falls out. The sulfide Au₂S₂ is forming at the action of CdS on a solution of AuCl₃; no compound of a determined composition was separated at the

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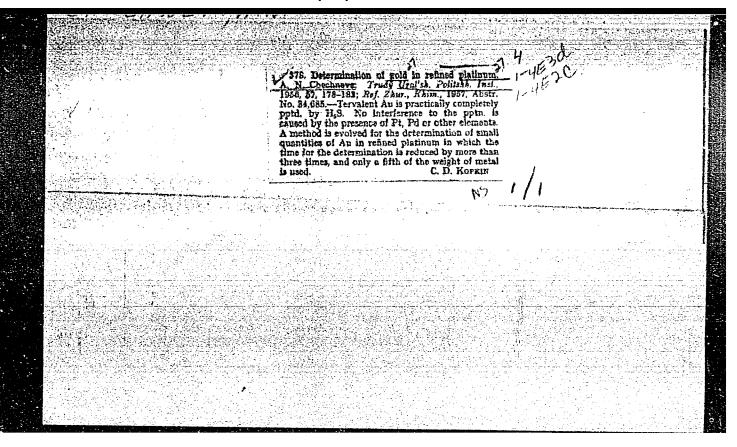
USSR/Inorganic Chemistry. Complex Compounds.

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Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26442.

interaction of HgS with AuCl₃. The author notes the extreme instability of Au₂S₃. The approximate value of the solution product of Au₂S₃ is 10-199.7.

Card 2/2



CHECHNEVA, A.N.

Reaction of trivalent gold with p-anisidine. Trudy Ural.politekh. inst. no.96:134-137 '60. (MIRA 14:3) (Gold—Analysis) (Anisidine)

CHECHNEVA, A.N.; PODCHAYNOVA, V.N.

Study of the reaction of platinum with 1,4-dipehnylthiosemicarbazide. Qualitative detection reaction for platinum. Izv. vys. ucheb. zav., khim i khim tekh. 7 no.52731-735 '64 (MIRA 18:1)

l. Kafedra analiticheskoy khimii Ural'skogo politekhnicheskogo instituta imeni S.M. Kirova.

PODCHAYNOVA, V.N.; CHECHNEVA, A.N.; KRYLOV, Ye.I.

Compounds of platinum with phenyl substituted thiosemicar-bazides. Zhur, neorg, khim, 10 no.23535-537 F 165.

1. Ural'skiy politekhnicheskiy institut. Submitted May 5, 1964.

- 1. CHECHNEVA, M.
- 2. USSR (600)
- 4. Women in Aeronautics
- 7. Aviation sportswomen in the land of the Soviet. Kryl. rod. 4, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

CHECHEEVA, Marina, geroy Sovetskogo Soyusa, saslushennyy master sporta.

High-altitude flight in a sport plane. Eryl.rod. 4 no.11:6 H '53.

(MIRA 6:11)

(Airplanes--Piloting)

CHECHNEVA, M.

: USSR/Aeronautics - Sports Subject

AID P - 5517

Pub. 58 - 8/17 Card 1/1

: Mikhalenkov, E., Hero of the Soviet Union, M. Chechneva, Hero of the Soviet Union, A. Vinokurov, Sen. Pilot-Authors

Instructor, Aeroclub of the City of Moscow.

Title : The lagging of the aviation sports must not be tolerated

Periodical: Kryl. rod., 2, 16, F 1957

Abstract : The authors discuss the withering of the interest of the

Soviet people in aviation sports, and suggest a series of measures aimed at stimulating the activity of the

DOSSAF organizations in this field.

Institution: None

Submitted : No date

SOV/85-58-10-7/34

AUTHOR:

Chechneva, M., Honorary Master of Sports, Hero of the Soviet Union

TIPLE:

Towards A Great Life! (V bol'shuyu zhizn')

PERIODICAL: Kryl'ya rodiny, 1958, Nr 10, pp 5-6 (USSR)

ABSTRACT:

The author tells how as a Komsomol member she was accepted at the age of 16 [1938] as a student of aviation at the Moskovskiy aeroklub (Moscow Aeroclub). During the war she joined the Communist Party, fought at the front, and in 1946 was awarded the title of Hero of the Soviet Union. After the war she trained students at the Tsentral'nyy aeroklub SSSR imeni V.P. Chkalova (USSR Central Aeroclub imeni V.P. Chkalov), led the group of women-pilots during air parades, participated many times in All-Union aviation competitions, winning first prizes and awards. She established 2 records in altitude flying in Yak-11 and Yak-18 aircraft on closed 500-km. triangular routes. In 1951, she was awarded the title of Honorary Master of Sports. In 1956, when retired from active service because of poor health, she continued working as a member of the Sovetskiy Komitet Veteranov voyny (Soviet War Veterans' Committee) as acting president of the Obshchestvo bolgaro-sovetskoy druzhby (Society of Bulgarian-Soviet Friendship), and as a member of the Presidium of the DOSAAF Central Committee.

Card 1/2

SOV/05-58-10-7/34

Towards a Great Life!

Personalities mentioned include Marina Raskova, instructor Mikhail Pavlovich Duzhnov, unit commander Ivan Ivanovich Shcherbakov, Hero of the Soviet Union, and flying instructors Valeriya Khomyakova, Ol'ga Shakhova, and Mariya Kuznetsova. There is 1 photograph of the author.

Card 2/2

CHECHNEVA, M., geroy Sovetskogo Soyuza

Planes take off into the night. Kryl.rod. 11 mo.3:16-18 Mg '60. (Momen in aeronautics)

CHECHNEVA, M., Geroy Sovetskogo Soyuza.

Planes take off into the night (to be continuted). Kryl.rod. 11 no.4:20-21 Ap '60. (World War, 1939-1945-Aerial operations) (Women in Aeronautics)

Airplanes take off into the night...(continuation)
Kryl.rod. 11 no.5:23-25 My '60. (MIRA 13:7)
(Women in aeronautics)
(World War, 1939-1945-Aerial operations)

CHECHNEVA. M., Geroy Sovetskogo Soyuza Airplanes take off into the night...(to be continued). Kryl.rod. 11 no.6:21-22 Je '60.

(World War, 1939-1945-Aerial operations)

(Women in Aeronautics) (MIRA 13:7)

CHECHNEVA, M., Geroy Sovetskogo Soyusa

Planes take off into the nights; (to be continued). Kryl.rod. 11 no.7:22-23 J1 160. (MIRA 13:7) (World War, 1939-1945—Aerial operations) (Women in aeronautics)

Planes take off into the night... Kryl.rod. 11 no.8:23-25 Ag
(World War, 1939-1945-Aerial operations)
(Women in aeronautics)

(MIRA 13:9)

CHECHNEVA, M., Geroy Sovetskogo Soyuza. Airplanes take off into the night (conclusion). Kryl.rod. 11 no.9:26-28 S '60. (MIRA 13:9

(Women in Geronautics)

CHECHNEVA, Marina Pavlovna, Geroy Sovetskogo Soyuza; ARISTOV, V.I., red.; SLEPTSOVA, Ye.N., tekhn. red.

[Airplanes take off into the night] Samolety ukhodiat v noch! Moskva, Voen. izd-vo M-va obor. SSSR, 1961. 156 p. (MIRA 14:7)

1. Chlen Presidiuma Tsentral'nogo Komiteta Vsesoyuznogo dobrovol'nogo obshehestva sodeystviya armii, aviatsii i flotu, Chlen Sovetakogo Komiteta veteranov voyny, zamestitel' predsedatalya Obshehestva sovetsko-bolgarskoy druzhby (for Chechneva)

(World War, 1939-1945—Aerial operations)

(Women in aeronautics)

CHECHNEVA, Marina, Geroy Sovetskogo Soyuza

Aerial hero Vadim Fadeev. Kryl. rod. 15 no.8:13 Ag *64 (MIRA 18:1)

CHECHNEVA, M., Geroy Sovetskogo Soyuza

A heart full of fire. Kryl. rod. 16 no.3:4-5 Mr 165.

(MIRA 18:5)

CHECHNEVA, Marina, Geroy Sevetskogo Seyuza

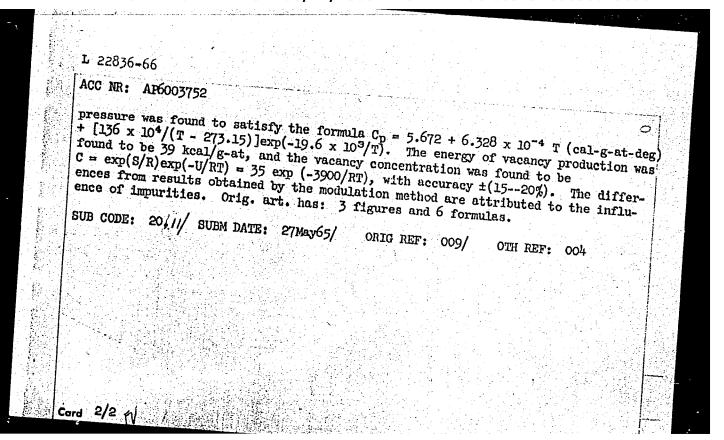
Battle over a city. Kryl. red. 16 no.12:4-6 D 165.

(MIRA 18:12)

CHECHOTKIN, O.V.

Age variations of some biochemical indices in the liver of hens of different production types. [with surmary in English]. Ukr. biokhim. shur. 30 no.42494-505 158 (MIRA 11:9)

1. Kafedra biokhimii Khar'kovskogo veterinarnogo instituta.
(POULFAT)
(LIVER)
(MATABOLISM)



CHECHTKIN, ALŁKSANDR VASIL YEVICH VYSOKOTEMPERATURIYYE TEPLONOSITELI (HIGH TEMPERATURE HEAT TRANSFER AGENTS)

MOSKVA, GOSENERGIOZDAT, 1957.

167 (1) P. DIAGRS., GRAPHS, TABLES

"LITERATURA": P. 164-(168)

CHECHUGA, B.G.

Some physiological and ecological characteristics of the habitat of the larvae of Tendipes f. 1. plumosus L. Vop. ekol. 5:242-243 '62. (MIRA 16:6)

1. Belostokskiy meditsinskiy institut.
(Rajgrod, Lake—Chironomidae)

CHECHUKOV, V.

Something new comes into our life. IUn. nat. no.9:11, 13 S '62.

(MIRA 16:5)

1. Sekretar' partiynoy organisatsii kolkhosa imeni XXI s"yesda

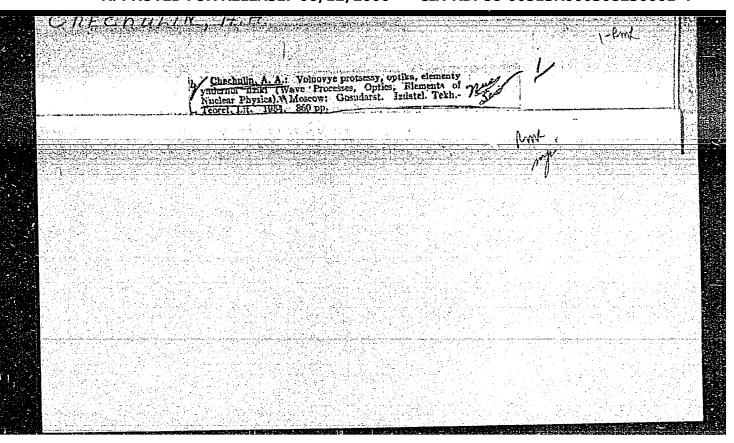
Kommunisticheskoy partii Sovetskogo Soyuza.

(Beresovka District (Odessa Province)—Collective farms)

CHECPULIN, A. A.

Chechulin, A. A. "On a physics course in higher technical schools," Vestnik vyssh. shkoly, 1949, No. 1, p. 16-19

SO: U-3264, 10 April 53, (Letopis 'Zhurnal 'nyk' Statey, No. 4, 1949).



24(4,5)

PHASE I BOOK EXPLOITATION sov/3293

Chechulin, Anatoliy Arkad'yevich

Volnovyve protsessy. Optika. Elementy atomnoy i yadernoy fiziki (Wave Mechanics. Optics. Elements of Atomic and Nuclear Physics) 2d ed., rev. and enl. Moscow, Figmatgiz, 1959. 396 p. 45,000 copies printed.

Ed.: V.A. Grigorova; Tech. Ed.: K.F. Brudno.

PURPOSE: This textbook is intended for students of physics at schools of higher technical education.

COVERAGE: The textbook treats the fundamental laws and principles of wave mechanics, optics, atomic structure, nuclear physics. Part One of this work contains definitions of harmonic, forced, and damped vibrations and an explanation of the Huygens, Fermat and Doppler principles. Acoustics, sound intensity and pressure, ultrasonics, electromagnetic wave propagation and the fundamentals of television are also discussed. Part Two deals with principles in optics;

Card 1/12

Ca

CHECHULIN, A.A., dotsent, kand. tekhr. nauk; PAVIOV. V.G., inzh.

Aerodynamic resistance of the layer of blast furnace burden materials. Izv. vys. ucheb. sav.; chern. met. 2 no.4:23-29 Ap

l. Ural'skiy lesotekhnicheskiy institut. Hekomendovano kafedroy energetiki Ural'skogo lesotekhnicheskogo instituta. (Blast furnaces)

PHASE I BOOK EXPLOITATION SOV/5784

Chechulin, Anatoliy Arkad'yevich

Fizika atoma, atomnogo yadra i elementarnykh chastits; uchebnoye posobiye po obshchemu kursu fiziki (Physics of the Atom, Atomic Nucleus, and Elementary Particles; Textbook for a General Course in Physics) Leningrad, 1960. 152 p. Errata slip inserted. 7000 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Severo-zapadnyy zaochnyy politekhnicheskiy institut.

Ed.: L. Vol'pe.

PURPOSE: This book is intended for high school and university students.

COVERAGE: Basic concepts of the physics of the atom, the nucleus, and of the elementary particles including such topics as line

Card 1/6

Physics of the Atom (Cont.)

SOV/5784

spectra, the orgin and sources of the various types of radiation, luminescence and fluorescence, radioactivity and nuclear trans-mutations, cosmic rays and the wave properties of elementary particles are discussed. No personalities are mentioned. There

TABLE OF CONTENTS:

Ch. I. Line Spectra and the Rutherford - Bohr Model of the	
atom atom	
system of elements and D. I. Mendeleyev's periodic	3
Review problems Ch. 2. Isotopes	14 20
3. Discovery of isotopes and methods of isotopic analysis	
ard 2/6	21

CHECHULIN, A.S.

"The N. N. Petrov Operation for Malignant Tumors of the Face and the Oral Cavity Responsible for Severe Pains," Mhirur., No.8, 1949.

Lecturer, 1st Chair Surgery, State Order Lenin Inst. for Advanced Training for Physicians im. Kirov.

CHECHULIE, A.S.

Fifty years of scientific activities of Bikolai Bikolaevich Petrov. Vest.khir. 70 no.2:3-6 F '50. (CIML 19:3)

1. Leningrad.

- 1. CHECHULIN, A. S.
- 2. USSR (600)
- 4. Mediastinum Tumors
- 7. Case of simultaneous removal of a neurofibroma of the posteriro mediastinum and of the thoracic portion of the esophagus due to cancer of the latter. Vest.khir. 72 no. 6, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

CHECHULIN, A.S., dotsent (adres: Leningrad, Nevskiy pr., d. 22/24,

Surgical treatment of tumor of the thyroid. Vest.khir. 74. no.3:71-73 Ap-My '54. (MLRA 7:6)

1. Is 1-y khirurgicheskoy kliniki (sav.prof. N.N.Petrov) Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey im. S.M.Kirova. (THYROID GLAND, neoplasms, *surg.)

CHECHULIN, A.S., dotsent (adress: Leningrad, Nevekiy pr. 22/24 kv. 161)

Professor N.N.Petrov as the head of the Department of Surgery at the S.M.Kirov State Institute for Advanced Medical Study. Vest. khir. 74 no.3:83-85 Ap-My 54. (MLRA 7:6)

1. Is 1-y kafedry khirurgii (sav. prof. M.M.Petrov) Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey im. S.M.Kirova. (PETROV, MIKOLAI MIKOLAMVICH, 1875-)

COGAN, A.Eh; CHECHULIN, A.S.; ALIYEV, M.A. (Moskva)

Blastomogenic effect of cellophage in experimental renal hypertension in rats. Arkh.pat. 17 no.2:65-66 Ap-Je '55. (MLRA 8:10)

1. Is TSentral'noy nauchno-issledovatel'skoy laboratorii imeni prof. S.I.Chechulina I Moskovskogo ordena Lenina meditsinskogo instituta (nauchnyy rukovoditel'--prof. S.M.Pavlenko)

(HYPERTENSION, experimental, renal, carcinogenic eff. of cellophane used for compression of kidney in rats)

(CARCINOGEES, cellophane, in compression if kidneys for prod. of exper. renal hypertension in rats)

(CELLOPHAME, effects, carcinogenic, in prof. of exper. renal hypert. by cellophane compression of kidneys)

(HEMORRHAGE

cholocystitis)

CHECHULIN, A.S., dotsent negration in the second

Bleeding from the mucous membrane of the gall baldder in calculous cholecystitis. Vest.khir.76 no.10:129-131 N 155. 1. Iz 1-y kafedry khirurgii (sav.--prof. N.N.Petrov) Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey im. S.M.Kirova. calculous, causing hemorrh. of gallbladder mucous (CHOLECT STITIS membrane) (GALL BLADDER, hemorrh. caused by calculous cholecystitis)

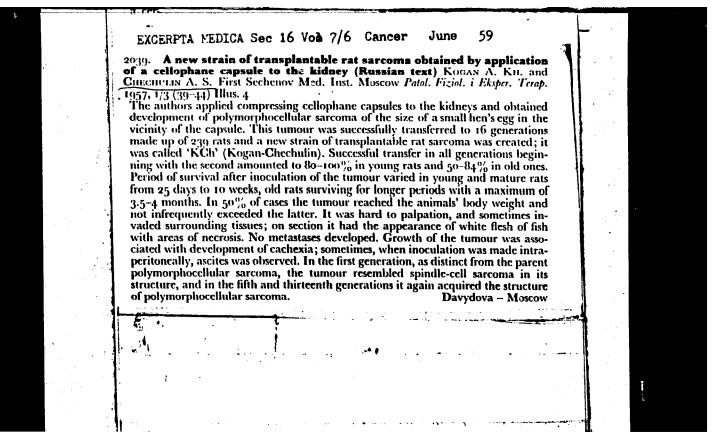
gall bladder sucous membrane, caused by calculous

KOGAN, A.Kh.; CHECHULIN, A.S.; Prinimali uchastiye: VEDROVA, N.N., student; FILIMOVA, M.V., student (Moskva)

Analysis of the importance of the mechanical factor in the blastomogenic action of compressive cellophane capsules applied to the
kidneys. Arkh.pat. 20 no.1:44-49 158. (MIRA 13:12)

1. Iz kafedry patofisiologii (zav. - prof. S.M.Pavlenko) i iz TSentral po nauchno-issledovatel skoy laboratorii imeni prof. S.I. Chechulina (zav. A.S.Chechulin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(KIDNEYS-TUMORS) (CELLOPHANE-PHYSIOLOGICAL EFFECT)



USSR/Human and Animal Physiology. Digestion.

Abs Jour: Ref. Zhur.-Biol., No 6, 1958, 26988.

: The Effect of Partial and Complete Extirpation of the Title

Cerebral Cortex on the "Mechanical Secretion" of

Gastric Juice.

Orig Pub: Patol. fiziologiya i eksperim. terapiya, 1957, 1,

No 4, 53-54.

Abstract: Bilateral extirpation of the cerebral cortex in

19 cats and 5 dogs augmented the secretion of gastric juice in response to a mechanical stimulus (shortened latent period, increased quantity of gastric juice, acidity and digestive activity) without its subsequent normalization within a period of six months.

Card

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q Lamin, feet T. so in T. D. Sechenov), 250 orgins (T., 33-37, 13)	9 Landug (e)	Table I	Section (), 250	orgina (C	, 33-57,			the os O rd

POLYAKOVA, K.K.; CHECHILIN, A.S. (Moskva)

Norphological changes in the organs and tissues of experimental animals caused by the mercurial diuretics mercusal and mersalin. Arkh.pat. 20 no.11:48-53 *58. (HIRA 12:8)

1. Iz kafedry patologicheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof.A.I.Strukov) i TSentral'noy nauchno-iseledovatel'skoy laboratorii imeni prof.S.I.Chechulina I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(MERCURY COMPOUNDS--PHYSIOLOGICAL EFFECT)

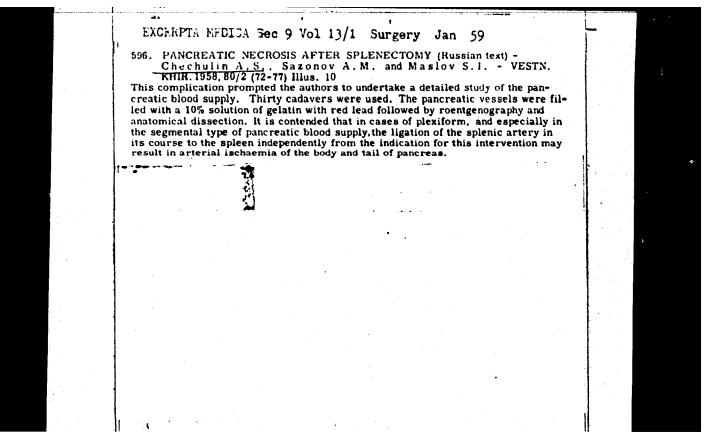
(DIURETICS AND DIURESIS)

CHECHULIN, A.S.

Effect of partial and total extirpation of the cerebral cortex on mechanical secretion of gastric juice. [with summary in English]
Biul.eksp.biol. i med. 45 no.6:44-49 Je '58 (MIRA 11:8)

1. Is laboratorii kortiko-vistseral'noy patologii (sav. - prof. I.T. Kurtsin) Instituta fisiologii imeni I.P. Pavlova (dir. - akad. K.M. Bykov) AH SSSR i TSentral'noy nauchno-issledovatel'skoy laboratorii im. prof. S.I. Chechulina (sav. A.S. Chechulin) I Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova. Predstavlena akademikom K.M. Bykovym. (CEREBRAL CORTEX, physiology

eff. of decortication on gastric secretion (Bus))
(GASTRIC JUICE,
secretion, eff. of cerebral decortication (Bus))

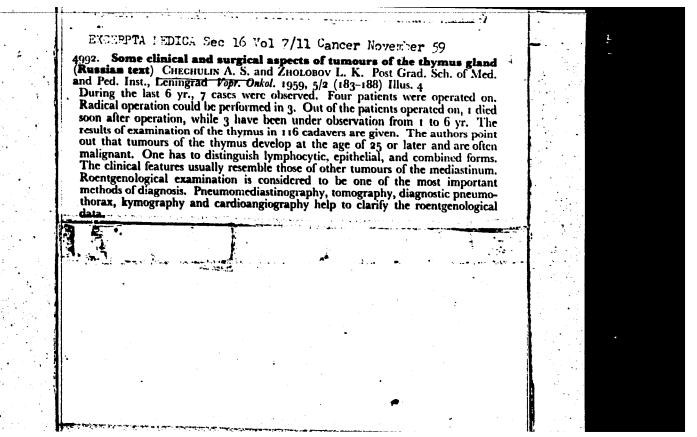


GALKIE, V.A.; CHECHULIN, A.S. (Moskva)

Experimental production of cholecystitis. Pat.fiziol. i eksp. terap. 3 no.1:78-79 Ja-F '59. (MIRA 12:2)

1. Is TSentral'noy nauchno-issledovatel'skoy laboratorii im.
S.I. Chechulina I Moskovskogo ordena Lenina meditsinskogo instituta I.M. Sechenova.

(CHOLECYSTITIS, experimental induction (Rus))



CHECHULIN, A.S., dotsent

Use of hemostatic biological preparations in surgery. Akt.vop.perel. krovi no.7:159-160 *59. (MIRA 13:1)

1. Leningradskiv Gosudarstvennyy ordena Lenina institut usovershenstvovaniya vrachey im. S.M. Kirova. (HENOSTATICS) (CHEST--SURGERY)

DOMEROVSKAYA, Yu.F., prof.; VAL'TER, Ye.N., kand.med.nauk; CHECHULIN, A.S., kand.med.nauk; DOMEROVSKIY, A.N., kand.med.nauk; ROGOV, A.A., kand.med.nauk; ROGOV, ROG

Age factor in the reactivity of the organism to hypoxemic states; parallel clinical and experimental findings. Vest.AMN SSSR 14 no.3: 18-29 159. (MIRA 12:3)

(AHOXIA, effects, age factor in animal & human reactions (Rus)) (AGING, effects, on animal & human reactions to anoxia (Rus))

ARKHANGEL SKAYA, L.N.; LEVTOVA, K.Z.; CHECHULIE, A.S.

Some data on the employment of medical graduates of sanitary-(MIRA 13:4) hygiene faculties. Olg.i san. 24 no.11:48-49 H 159.

1. Is I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(HYGIERE education)

ARKHANGEL'SKAYA, L.N.; GALKIN, V.A.; GRIGORENKO, R.V.; LEVTOVA, K.Z.; CHECHULIN, A.S.; GARVEY, H.H., red.; RAYKO, H.M., tekhn.red.

[They serve the motherland; tenth anniversary of the graduation of physicians at the I.M.Sechenov First Moscow Medical Institute in 1949] Oni slushat Rodine; k 10-letiiu vypuska vrachei 1-go in 1949] Oni slushat Rodine; k 1949] Oni slushat

(MOSCOW-MEDICAL COLLEGES)

DOMBROVSKAYA, Yu.F.; VAL TER, .M.; CHECHULIN, A.S.; DOMBROVSKIY, A.N.; ROGOV, A.A.

Role of the age factor in hypoxemic states. (Clinico-experimental studies). Acta med. hun. 15 no.1:99-115 '60.

1. Klinika detskikh bolezney i TSentral'naya Nauchno-issledovatel'skaya Iaboratoriya imeni S. I. Chechulina l Moskovskogo Ordena Lenina Meditsinskogo Instituta imeni I.M.Sechenova. (ANOKIA) (AGING)

DOMBROVSKAYA, Yuliya Fominichna. Prinimali uchastiye: CHECHULIN, A.S., kand. med. nauk; DOMBROVSKIY, A.N., nauchnyy sotr.; ROCOV, A.A., nauchnyy sotr.; DMITRIYEVA, N.M., red.; MIRONOVA, A.M., tekhn. red.

[Clinical aspects and pathogenesis of hypoxemia in the growing body; clinical experimental observations] Klinika i patogenez gipoksemii rastushchego organizma; kliniko-eksperimental nye nabliudeniia. Pri uchastii A.S.Chechulina, A.N.Dombrovskogo i A.A.Rogova. Moskva, Medgiz, 1961. 254 p. (MIRA 15:4)

l. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Dombrovskaya).

(ANOXEMIA)

CHECHULIN, A.S. (Leningrad, D-88, Nevskiy prosp., 22/24, kv.161);

Surgical treatment of myasthenia (thymectomy). Grud. khir. 2 no.3:92-99 My-Je 160. (MIRA 15:3)

1. Iz kafedry torakal'noy khirurgii i anesteziologii (ispolnyayushchiy obyazannosti zaveduyushchego - prof. V.V. Ornatskiy),
kafedry nervnykh bolezney (zav. - deystvitel'nyy chlen AMN SSSR
prof. S.N. Davidenkov) Gosudarstvennogo ordena Lenina Instituta
usovershenstvovaniya vrachey imeni S.M. Kirova i kliniki nervnykh
bolezney No.2 (zav. - prof. A.G. Fanov) Voyenno-meditsinskoy
ordena Lenina akademii imeni S.M. Kirova.

(MYASTHENIA GRAVIS)

IVANOVA, A.1.; CHECHULIN, A.S.

Comparative evaluation of chemotherapeutic preparations based on their effect on the transplantable Magan-Chechulin sarcoma in rats. Trudy 1-MMI) 16:278-285 '62. (MIRA 17:4)

1. Iz TSentral'noy nauchno-issledovatel'skoy laboratorii imeni S.I.Chechulina (zav. - kand.med.mauk A.S.Chechulin).

BABCHIN, I.S., prof.; BABANOVA, A.G., doktor med. nauk; BLOKHIN, N.N., prof.; BOMDARCHUK, A.V., prof.; GAL'PERIN, M.D., prof.; GOL'DSHTEYN, L.M., prof.[deceased]; DYMARSKIY, L.Yu., kand. med. nauk; KARPOV, N.A., prof.; KOYRO, M.A., nauchn. sotr.; LARIONOV, L.F., prof.; LITVINOVA, Ye.V., kand. med. nauk; MEL'NIKOV, R.A., kand. med. nauk; NECHAYEVA, I.D., doktor med. nauk; PETROV, Nikolay Nikolayevich, prof.; PETROV, Yu.V., kand. med.nauk; RAKOV, A.I., prof.; ROGOVENKO, S.S., kand. med. nauk; SENDUL'SKIY, I.Ya., prof.; SEREBROV, A.I., prof.; SMIRNOVA, I.N., kand. med. nauk; TAL'MAN, I.M., prof.; TOBILEVICH, V.P., prof.; TRUKHALEV, A.I., kand. med. nauk; KHOLDIN, Semen Abramovich, prof.; CHEKHARINA, Ye.A., kand. med. nauk; CHECHULIN, A.S., kand. med. nauk; SHAAK, V.A., prof.[deceased]; SHANIN, A.P., prof.; SHAPIRO, I.N., prof.[deceased]; SHEMYAKINA, T.V., kand. med. nauk; SHERMAN, S.I., prof.; ABRAKOV, L.V., red.; LEBEDEVA, Z.V., tekhn. red.

[Malignant tumors]Zlokachestvennye opukholi; klinicheskoe rukovodstvo. Leningrad, Medgiz. Vol.3. Pts.1-2. 1962. (MIRA 16:5)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Blokhin, Petrov, Serebrov). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kholdin).

(CANCER)

GRIGORENKO, Remir Vladimirovich; KOSHAYEVA, Vera Georgiyevna; SHAVERD'YAN, El'vina Georgiyevna; CHECHULIN, A.S., red.; BASHMAKOV, G.M., tekhn. red.

[Reader on medicine for foreign students] Kniga dlia chtenia po meditsine dlia studentov inostrantsev; uchebnoe posobie. Moskva, Medgiz, 1963. 303 p. (MIRA 16:10) (MEDICINE-STUDY AND TEACHING)

DOGEL', L.V.; CHECHULIN, A.S.

Treatment of myasthenia by thymectomy. Zhur. nevr. i psikh. 63 no.8:1139-1146 '63. (MIRA 17:10)

1. Klinika nervnykh bolezney (zav. - prof. S.N. Davidenkov [deceased]) i klinika torakal noy khirurgii (zav. - prof. S.A. Gadzhiyev) Instituta usovershenstvovaniya vrachey imeni Kirova, Leningrad.

USSR / Diseases of Farm Animals. Toxicoses.

Abs Jour: Ref Zhur-Biol:, No 8, 1958, 35878.

Author : Chechulin, A. W.
Inst : Stavropol Institute of Agriculture. Title : Sheep Poisoning by Taurus Sagebrush.

Orig Pub: Sb. nauchno-issled. rabot stud. Stavropol'sk.

in-ta, 1956, vyp. 4, 131-133.

Abstract: No abstract.

Card 1/1

CHECHULIN, B. B.

USSR/Physics - Structural Strength

FD-603

Card 1/1

: Pub. 153-15/22

Author

: Chechulin, B. B.

...

Comment Comments

Title

: Statistical theory of fragile strength

Periodical

: Zhur. tekh. fiz., 24, 292-298, Feb 1954

Abstract

: Presents a critical analysis of the basic assumptions in the theory of statistics proposed by W. Weibull (Proc. Roy. Swedish Inst. Eng. Res. No 151, (1939)) and by T. A. Kontorova and Ya. I Frenkiel (ZhTF, 11, No 3,173 (1941)). Demonstrates that the failure of these theories is due to the theoretically incorrect assumption as to the distribution function of defect hazards, which are statistically distributed through the body and responsible for its destruction under load. Indebted to

Prof. O. V. Sarmanov. 8 references, including 2 foreign.

Institution:

Submitted

: May 22, 1953

CHECHULIN, B.B.

USSR/Metallurgy - Rupture of steel

FD-1014

Card 1/1

: Pub. 153 - 18/24

Author

: Chechulin, B. B.

Title

: Influence of the size of specimens upon mechanical characteristics during

plastic destruction.

I. Scale effect during static test on the rupture of steel of various

brands.

Periodical

: Zhur. tekh. fiz., 24, 1093-1100, Jun 1954

Abstract

: Shows that in the case of a plastic character the rupture in the test for influence of specimen size on fracture depends only on the socalled limiting mechanical characteristics. Concludes that a variation in diameter of specimens from 1.5 to 20 mm has practically no influence on the mechanical characteristics which are not directly connected with rupture. For most steels tested an increase in diameter leads to lessening of necking and of true resistance to rupture, in which the scale

effect mainly appears. Ten references, 5 USSR (e.g. P. O. Pashkov,

1953).

Institution

: June 9, 1953 Submitted

CHECHULIN, B.B.

USSR/Metallurgy - Rupture of steel

FD-1015

Card 1/1

: Pub. 153 - 19/24

Author

: Chechulin, B. B.

Title

: Influence of the size of specimens upon mechanical characteristics during plastic destruction. 11. Physical nature of influence of scale factor

during plastic destruction

Periodical : Zhur. tekh. fiz., 24, 1101-1110, Jun 1954

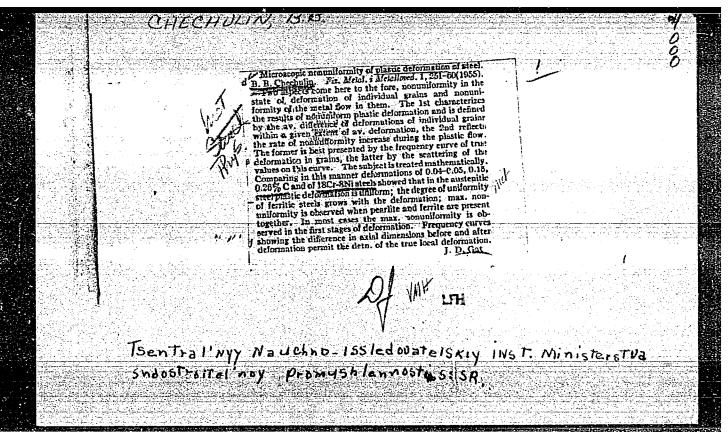
Abstract

: Analyzes the possible causes of observed scale effect and attempts to explain the scale effect in plastic destruction from the viewpoint of the static theory of destruction. Does not consider problems connected with scale effect in cyclic tests. Thanks L. S. Chuyeva for her assistance in forming steels. Twelve references, 9 USSR (e.g. F. S. Savitskiy,

N. F. Lashko, etc.)

Institution: -

Submitted: June 9, 1953



CHECHULIN, B.B.
USSR/Metallurgy - Brittleness

FD-2412

Card 1/2

Pub. 153-16/21

Author

Chechulin, B. B.

..........

THE REAL PROPERTY.

Title

Brittleness of metals and the scale effect

Periodical:

Zhur. tekh. fiz. 25, 125-134, Jan 1955

Abstract

The author establishes a formula for the dependence of critical temperature of brittleness (temperature of appearance in a fracture of crystalline regions) upon size for similar notched samples, which formula has the form $1/T_{\rm Cr}$ = K·log M·B, where M is any similar dimension of samples and K,B are constants of the material. He gives the theoretical reasons for the formula on the basis of a generalized scheme of A. F. Ioffe and statistical nature of brittle strength. He proposes a new characteristic reflecting the tendency of steel to the scale effect, which he calls the scale coefficient of critical temperature of brittleness. He shows that the physicometallurgical nature of brittleness, individual peculiarities of smelting and make are reflected but slightly in the magnitude of the scale coefficient, although the influence of the make or quality of steel requires further testing. He notes that considerable influence is exerted upon the scale coefficient of temperature of annealing of steel

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after cooling; here it is established that the higher the temperature of annealing the greater the absolute scale coefficient of temperature of brittleness. He thanks A. L. Nemchinskiy, candidate of technical sciences. Nine references.

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